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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 09/02/2010

JOHNS MANVILLE Legal Department 10100 West Ute Avenue Littleton, CO 80127 EXAMINER STEELE, JENNIFER A

ART UNIT PAPER NUMBER

1782 DATE MAILED: 09/02/2010

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10/608,790
 06/27/2003
 Alan Michael Jaffee
 7302
 6842

TITLE OF INVENTION: NON-WOVEN GLASS FIBER MAT FACED GYPSUM BOARD AND PROCESS OF MANUFACTURE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/02/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wi pondence address;	II be m	nailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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JOHNS MANY Legal Departme 10100 West Ute	nt Avenue	/2010	Lhe	Certi	ificate o	of Mailing or Trans	
Littleton, CO 80	1127						(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/608,790 TITLE OF INVENTION	06/27/2003 I: NON-WOVEN GLAS	S FIBER MAT FACED O	Alan Michael Jaffee GYPSUM BOARD AND I	PROCESS OF MAN	UFAC	7302 TURE	6842
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	12/02/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
STEELE, JE	ENNIFER A	1782	442-348000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address 22 or more recent) attach ND RESIDENCE DATA	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON 2	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be THE PATENT (print or typ data will appear on the p. T a substitute for filing an.	3 registered patent vely, e firm (having as a a agent) and the names meys or agents. If n printed.	attorne member s of up o name	ra 2to	ocument has been filed for
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Issue Fee Publication Fee (N	wo small entity discount p	permitted)	A check is enclosed.  Payment by credit can  The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attac	hed.	
<ol> <li>Change in Entity Sta</li> <li>a. Applicant claim</li> </ol>	tus (from status indicated s SMALL ENTITY state		☐ b. Applicant is no long	ger claiming SMALI	LENTI	TY status. See 37 Cl	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	he applicant; a regist	tered at	torney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No			
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but (irginia 22313-1450. DC k13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR 6	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 m idual case. Any con r, U.S. Patent and T D THIS ADDRESS.	e public inutes t nments 'radema SEND	which is to file (and to complete, including on the amount of tir ork Office, U.S. Depart TO: Commissioner	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/608,790	06/27/2003	Alan Michael Jaffee	7302	6842	
75	90 09/02/2010		EXAM	UNER	
JOHNS MANVI	LLE		STEELE, JENNIFER A		
Legal Department			ART UNIT	PAPER NUMBER	
10100 West Ute A Littleton, CO 8012			1782 DATE MAILED: 09/02/201	0	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)		
Application No.	Applicant(s)		
10/608,790	JAFFEE, ALAN MICHAEL		
Examiner	Art Unit		
JENNIFER STEELE	1782		

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--1. This communication is responsive to Amendment after Non-Final of 6/23/2010. The allowed claim(s) is/are 1-3,5,7,9,11-19,21-33. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)  $\square$  All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 6/26/2006 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other . /Rena L. Dve/ /J. S./ Examiner, Art Unit 1782 Supervisory Patent Examiner, Art Unit 1782

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# Allowable Subject Matter

Claim1-3, 5, 7, 9, 11-19 and 21-33 allowed.

## Examiner Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ernest D. Buff on 8/25/2010 and 8/27/2010.

The application has been amended as follows:

- Claim 20 has been cancelled.
- Claims 1, 29, 32, 32 and 33 are amended as follows:
  - Add the limitation of cancelled claim 20 in the last line of each claim:
     "wherein the resinous binder further comprises a cross-linker in an amount ranging up to about 10 weight percent".
- · Claim 30 is amended as follows:
  - Delete on line 14 "of which is in the range of about 8 to 17 micron" and
     Add "of about 11 +/- 1.5 micron"

Art Unit: 1782

Add on line 19 of the claim the limitation "and said mat has a
permeability of at least about 300 cfm/ft² measured in accordance with
ASTM Standard D737 at a differential pressure of 0.5 inches of water."

- Add on the last line of the claim: "wherein the resinous binder further comprises a cross-linker in an amount ranging up to about 10 weight percent".
- Claim 31 is amended as follows:
  - Add "A fibrous mat" at the beginning of line 1.
  - Delete "a" on line 1 and replace with "the" so that the claim reads
     "A fibrous mat for use as a face for a gypsum board, the fibrous mat comprising"

#### Reasons for Allowance

The following is a statement of reasons for the indication of allowable subject matter: The current rejections rely on Gill for teaching that it would have been obvious to optimize the blend of the claimed fiber sizes to achieve the desired porosity.

However Gill teaches a low permeability mat and Applicant amended the independent claims to recite a permeability of 300 CFM/FT<sup>2</sup>. Gill teaches away from the fibrous mat with high permeability. In addition, Gill does not teach a binder with a cross-linking agent.

Based on the prior art of record, it would not have been obvious nor predictable to one of ordinary skill in the art to combine the claimed amount of crosslinking agent in Art Unit: 1782

combination with optimizing the claimed composition of fiber sizes having an average fiber diameter of 11 +/- 1.5 micron and 1-30% of an average fiber diameter of less than about 5.5 micron in order to achieve the higher permeability mat.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER STEELE whose telephone number is (571)272-7115. The examiner can normally be reached on Office Hours Mon-Fri 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S./ Examiner, Art Unit 1782

8/27/2010

/Rena L. Dye/ Supervisory Patent Examiner, Art Unit 1782